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Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	29-07-2020
Type of Mix	:	Tack coat
Sample I/D	:	4

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	**Unit**	**Test No**	
		1	**2**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.796	0.762
Final weight of plate after application of tack Coat (c)	Kg	0.819	0.785
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.253	0.252
Average	Kg/sq.m	0.253	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.R Ramshankar Reddy

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	DBM		**Proposed Use**	**DBM**
Sample Location	At plant		**Date of Sampling**	**29-07-2020**
			Date of Testing	**29-07-2020**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	7792	682	7044	388
31.5	25.0	4210	212	3588	294
25.0	20.0	2464	270	2002	234
20.0	16.0	1562	348	986	266
16.0	12.5	572	110	464	180
12.5	10.0	492	58	258	95
10.0	6.3	128	88	86	57
Total		**17220**	**1768**	**14428**	**1514**

Results

Flakiness Index(%):	10.27
Elongation Index(%):	10.49
Combined FI+EL (%)	20.76

Consultant's Representative

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Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.R Ramshankar Reddy

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	DBM	**Date of Sampling**	**29-07-2020**
Sample Location	At plant	**Date of Testing**	**29-07-2020**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	366.00	384.00	344.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	274.00	288.00	256.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	92.00	96.00	256.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.14	25.00	74.42	
5	Average Aggregate impact value	(%)	41.52			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

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Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Bytarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Bytarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Bytarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	30-07-2020
Type of Mix	:	Tack coat DBM
Sample I/D	:	4

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x 0.30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.782	0.774
Final weight of plate after application of tack Coat (c)	Kg	0.805	0.797
Weight of tack coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.253	0.253
Average	Kg/sq.m	0.253	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM MIX		
Name of Work	:	Package-10/1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	30-07-2020
Type of Mix	:	DBM
Sample I/D	:	DBM-3

DETERMINATION OF BITUMEN CONTENT		
Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	855	934
2. Weight of Mixture after extraction, g	818	894
3. Weight of Bitumen	37	40
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.00	4.00
6. Weight of fines, g	2.00	2.00
7. Weight of Bitumen & fines	39.00	42.00
8. Bitumen content in %	4.56	4.50
9. Average Bitumen content in %	4.53	
10. Minimum Bitumen content in %	4.50	

GRADATION FOR DBM AFTER EXTRACTION

(As per MORT&H 500-10,Grading-2)

Sample Location:	At site	**Date of Sampling:**	30-07-2020
		Date of testing:	30-07-2020
Type of material & Purpose:	DBM	**Oven Dry Wt.(gms):**	818

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0.0	0.0	0.00	100.00	100.00
26.50	42.0	42.0	5.13	94.87	90-100
19.00	122.0	164.0	20.05	79.95	71-95
13.20	103.0	267.0	32.64	67.36	56-80
4.750	156.0	423.0	51.71	48.29	38-54
2.360	96.0	519.0	63.45	36.55	28-42
0.300	162.0	681.0	83.25	16.75	7-21
0.075	89.0	770.0	94.13	5.87	2-8
Pan	48.0				
Total	818.0				

Consultant's Representative

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Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No,05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	30-07-2020
Type of Mix	:	DBM
Sample I/D	:	DBM-3

GRADATION FOR DBM
(As per MORT&H 500-10,Grading-2)

Sample Location:	At plant	**Date of Sampling:**	30-07-2020
		Date of testing:	30-07-2020
Type of material & Purpose:	DBM	**Oven Dry Wt.(gms):**	1500.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0	0	0.00	100.00	100.00
26.50	90	90	6.00	94.00	90-100
19.00	124	214	14.27	85.73	71-95
13.20	256	470	31.33	68.67	56-80
4.750	336	806	53.73	46.27	38-54
2.360	172	978	65.20	34.80	28-42
0.300	262	1240	82.67	17.33	7-21
0.075	198	1438	95.87	4.13	2-8
Pan	62	1500			
Total	1500.0				

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Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	30-07-2020
Type of Mix	:	DBM
Sample I/D	:	DBM-3

GRADATION FOR DBM

(As per MORT&H 500-10,Grading-2)

Sample Location:	At plant	Date of Sampling:	30-07-2020
		Date of testing:	30-07-2020
Type of material & Purpose:	DBM	Oven Dry Wt.(gms):	1500.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0	0	0.00	100.00	100.00
26.50	90	90	6.00	94.00	90-100
19.00	124	214	14.27	85.73	71-95
13.20	256	470	31.33	68.67	56-80
4.750	336	806	53.73	46.27	38-54
2.360	172	978	65.20	34.80	28-42
0.300	262	1240	82.67	17.33	7-21
0.075	198	1438	95.87	4.13	2-8
Pan	62	1500			
Total	1500.0				

Consultant's Representative

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Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.R Ramshankar Reddy

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	BC	**Date of Sampling**	**30-07-2020**
Sample Location	At plant	**Date of Testing**	**30-07-2020**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	384.00	366.00	394.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	285.00	274.00	295.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	99.00	92.00	99.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.78	25.14	25.13	
5	Average Aggregate impact value	(%)	25.35			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

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Consultant's Representative

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Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.R Ramshankar Reddy

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC	Proposed Use	BC
Sample Location	At plant	Date of Sampling	30-07-2020
		Date of Testing	30-07-2020

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	933	72	943	75
16.0	12.5	1236	114	1250	122
12.5	10.0	524	78	446	53
10.0	6.3	496	63	438	70
Total		**3189**	**327**	**3077**	**320**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.25
Elongation Index(%):	10.40
Combined FI+EL (%)	20.65

Consultant's Representative

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GRADATION FOR RC
(As per MORT&H 500:18,Grading-5)

Name of Work	:	Package: IB-1 Construction of anganwadi building at Krishna Reddy palya, byrasandra, byatarayanapura sub division; 2.Improvements of roads and drains at Ward No.90 byatarayanapura sub division; 3.Improvements of roads and drains at Ward No.08 Byatarayanapura sub division; 4.Improvements to Roads and Drains at Telecom Layout Cross, Hemla Nagara Ward No.08 Byatarayanapura Sub division; 5.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No.08 Byatarayanapura Sub division.
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	03.08.2020
Type of Mix	:	BC
Sample I/D	:	BC6

Sample Location:	At plant	Date of Sampling:	31-07-2020
Type of material & Purpose:	BC	Date of testing:	31-07-2020
		Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	128	128.0	10.67	89.33	79 - 100
9.50	114	242.0	20.17	79.83	71 - 95
4.75	220	462.0	38.50	61.50	53 - 71
2.360	124	586.0	48.83	51.17	42 - 58
1.180	135	721.0	60.08	39.92	34 - 48
0.600	120	841.0	70.08	29.92	26 - 38
0.300	124	965.0	80.42	19.58	18 - 28
0.150	78	1043.0	86.92	13.08	12 - 20
0.075	50	1093.0	91.08	8.92	4 - 10
Pan	81.0	1174.0			
Total	1174.0				

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	31-07-2020
Type of Mix	:	BC
Sample I/D	:	BC6

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	968	934
2. Weight of Mixture after extraction, g	917	885
3. Weight of Bitumen	51	49
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.10	4.00
6. Weight of fines, g	2.10	2.00
7. Weight of Bitumen & fines	53.10	51.00
8. Bitumen content in %	5.49	5.46
9. Average Bitumen content in %	5.47	
10. Minimum Bitumen content in %	5.40	

GRADATION FOR BC AFTER EXTRACTION
(As per MORTH & 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	31-07-2020	
		Date of testing:	31-07-2020	
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	917.0	
IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	88	88.0	9.60	90.40	79 - 100
9.50	125	213.0	23.23	76.77	71 - 95
4.75	96	309.0	33.70	66.30	53 - 71
2.360	154	463.0	50.49	49.51	42 - 58
1.180	112	575.0	62.70	37.30	34 - 48
0.600	78	653.0	71.21	28.79	26 - 38
0.300	72	725.0	79.06	20.94	18 - 28
0.150	54	779.0	84.95	15.05	12 - 20
0.075	68	847.0	92.37	7.63	4 - 10
Pan	70.0	917.0			
Total	917.0				

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Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	31-07-2020
Type of Mix	:	Tack coat
Sample I/D	:	9

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	**Unit**	**Test No**	
		1	**2**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.860	0.932
Final weight of plate after application of tack Coat (c)	Kg	0.883	0.955
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.250	0.250
Average	Kg/sq.m	0.250	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	31-07-2020
Type of Mix	:	Tack coat
Sample I/D	:	9

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	**Unit**	**Test No**	
		1	**2**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.864	0.912
Final weight of plate after application of tack Coat (c)	Kg	0.887	0.935
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.251	0.251
Average	Kg/sq.m	0.251	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

Consultant's Representative

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 byatarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	03-08-2020
Type of Mix	:	BC
Sample I/D	:	BC5

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	952	915
2. Weight of Mixture after extraction, g	902	867
3. Weight of Bitumen	50	48
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.10	4.00
6. Weight of fines, g	2.10	2.00
7. Weight of Bitumen & fines	52.10	50.00
8. Bitumen content in %	5.47	5.46
9. Average Bitumen content in %	5.47	
10. Minimum Bitumen content in %	5.40	

GRADATION FOR BC AFTER EXTRACTION

(As per MORTH & 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	03-08-2020
		Date of testing:	03-08-2020
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	902.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	84	84.0	9.31	90.69	79 - 100
9.50	132	216.0	23.95	76.05	71 - 95
4.75	92	308.0	34.15	65.85	53 - 71
2.360	135	443.0	49.11	50.89	42 - 58
1.180	124	567.0	62.86	37.14	34 - 48
0.600	76	643.0	71.29	28.71	26 - 38
0.300	62	705.0	78.16	21.84	18 - 28
0.150	54	759.0	84.15	15.85	12 - 20
0.075	96	855.0	94.79	5.21	4 - 10
Pan	47.0	902.0			
Total	902.0				

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	03-08-2020
Type of Mix	:	BC
Sample I/D	:	BC6

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	944	922
2. Weight of Mixture after extraction, g	895	874
3. Weight of Bitumen	49	48
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.10	4.00
6. Weight of fines, g	2.10	2.00
7. Weight of Bitumen & fines	51.10	50.00
8. Bitumen content in %	5.41	5.42
9. Average Bitumen content in %	**5.42**	
10. Minimum Bitumen content in %	**5.40**	

GRADATION FOR BC AFTER EXTRACTION

(As per MORTH & 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	**03-08-2020**
		Date of testing:	**03-08-2020**
Type of material & Purpose:	**BC**	Oven Dry Wt.(gms):	895.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	88	88.0	9.83	90.17	79 - 100
9.50	124	212.0	23.69	76.31	71 - 95
4.75	94	306.0	34.19	65.81	53 - 71
2.360	154	460.0	51.40	48.60	42 - 58
1.180	112	572.0	63.91	36.09	34 - 48
0.600	74	646.0	72.18	27.82	26 - 38
0.300	72	718.0	80.22	19.78	18 - 28
0.150	54	772.0	86.26	13.74	12 - 20
0.075	68	840.0	93.85	6.15	4 - 10
Pan	55.0	895.0			
Total	895.0				

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GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Name of Work	:	Package-10.1. Construction of anganawadi building at kosalu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division. 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	03.08.2020
Type of Mix	:	BC
Sample I/D	:	BC3

Sample Location:	At plant	Date of Sampling:	03.08.2020
Type of material & Purpose:	BC	Date of testing:	03.08.2020
		Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	140	140.0	11.67	88.33	79 - 100
9.50	112	252.0	21.00	79.00	71 - 95
4.75	214	466.0	38.83	61.17	53 - 71
2.360	138	604.0	50.33	49.67	42 - 58
1.180	140	744.0	62.00	38.00	34 - 48
0.600	124	868.0	72.33	27.67	26 - 38
0.300	105	973.0	81.08	18.92	18 - 28
0.150	70	1043.0	86.92	13.08	12 - 20
0.075	50	1093.0	91.08	8.92	4 - 10
Pan	107.0	1200.0			
Total	1200.0				

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Authorised Signatory

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Name of Work	:	Package-10A1: Construction of anganwadi building at Kogilu in ward no.05 Byatarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No.05 Byatarayanapura Sub division. 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No.05 Byatarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	03-08-2020
Type of Mix	:	Tack coat
Sample ID	:	S

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.822	0.844
Final weight of plate after application of tack Coat (c)	Kg	0.845	0.867
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.252	0.256
Average	Kg/sq.m	0.254	
Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

Consultant Representative

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Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	03-08-2020
Type of Mix	:	Tack coat
Sample I/D	:	6

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	**Unit**	**Test No**	
		1	**2**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.852	0.866
Final weight of plate after application of tack Coat (c)	Kg	0.875	0.889
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.254	0.256
Average	Kg/sq.m	0.255	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

Consultant's Representative

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Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.R Ramshankar Reddy

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	BC	**Date of Sampling**	**03-08-2020**
Sample Location	At plant	**Date of Testing**	**03-08-2020**

Sl. No.	Description		Test No.			Spec Limit (%)
			1	2	3	
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	380.00	372.00	394.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	284.00	278.00	295.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	96.00	94.00	99.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.26	25.27	25.13	
5	Average Aggregate impact value	(%)	25.22			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

AE

JE

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Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.R Ramshankar Reddy

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC		**Proposed Use**	BC
Sample Location	At plant		**Date of Sampling**	03-08-2020
			Date of Testing	03-08-2020

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	946	74	946	74
16.0	12.5	1234	118	1248	120
12.5	10.0	522	74	442	54
10.0	6.3	494	64	436	72
Total		**3196**	**330**	**3072**	**320**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.33
Elongation Index(%):	10.42
Combined FI+EL (%)	20.74

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GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in Ward No.005 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	03.08.2020
Type of Mix	:	BC
Sample I/D	:	BC3

Sample Location:	At plant	Date of Sampling:	03.08.2020
Type of material & Purpose:	BC	Date of testing:	03.08.2020
		Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	158	158.0	13.17	86.83	79 - 100
9.50	124	282.0	23.50	76.50	71 - 95
4.75	228	510.0	42.50	57.50	53 - 71
2.360	122	632.0	52.67	47.33	42 - 58
1.180	114	746.0	62.17	37.83	34 - 48
0.600	134	880.0	73.33	26.67	26 - 38
0.300	90	970.0	80.83	19.17	18 - 28
0.150	70	1040.0	86.67	13.33	12 - 20
0.075	50	1090.0	90.83	9.17	4 - 10
Pan	110.0	1200.0			
Total	1200.0				

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GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Name of Work	:	Package-10.1. Construction of anganawadi building at kogilu in Ward No.05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.06 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division, 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to roads and drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.R Ramshankar Reddy
Date of Testing	:	22-12-2019
Type of Mix	:	BC
Sample I/D	:	BC1

Sample Location:	At plant	Date of Sampling:	22.12.2020	
Type of material & Purpose:	BC	Date of testing:	22-12-2019	
		Oven Dry Wt.(gms):	1200.0	

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	128	128.0	10.67	89.33	79 - 100
9.50	112	240.0	20.00	80.00	71 - 95
4.75	224	464.0	38.67	61.33	53 - 71
2.360	126	590.0	49.17	50.83	42 - 58
1.180	134	724.0	60.33	39.67	34 - 48
0.600	108	832.0	69.33	30.67	26 - 38
0.300	126	958.0	79.83	20.17	18 - 28
0.150	66	1024.0	85.33	14.67	12 - 20
0.075	100	1124.0	93.67	6.33	4 - 10
Pan	76.0	1200.0			
Total	1200.0				

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REPORT

(DENSITY OF BITUMINOUS LAYERS)

Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Agency		Sri R Ramshankar Reddy
Name of the Work	:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Consultant :		M/s Tejus Consultants
Location		MCECHS layout and Amruthnagar
Date of Testing	:	11-08-2020

Sl. No	Name of the road/Core Location	Chainage	BC Thickness in mm	BC Density gm/cc
	17th cross Phase-1 MCECHS			
1	Core-1	@50	40	2.33
2	Core-2	@100	40	2.33
	18th cross Phase-1 MCECHS			
3	Core-3	@50	40	2.33
4	Core-4	@130	40	2.33
	9th cross Phase-1 MCECHS			
5	Core-5	@20	40	2.33
6	Core-6	@160	40	2.32
	10th cross Phase-1 MCECHS			
7	Core-7	@50	40	2.34
8	Core-8	@110	40	2.34
	7th B cross Phase-1 MCECHS			
9	Core-9	@80	40	2.32
10	Core-10	@130	40	2.32
	6th A cross Phase-1 MCECHS			
11	Core-11	@110	40	2.33
12	Core-12	@200	40	2.33
	5th cross Phase-2 MCECHS			
13	Core-13	@80	40	2.35
14	Core-14	@140	40	2.35
	6th cross Phase-2 MCECHS			
15	Core-15	@65	40	2.32
	7th A cross Phase-2 MCECHS			
16	Core-16	@50	40	2.34
17	Core-17	@130	40	2.34
	8th cross Phase-2 MCECHS			
18	Core-18	@40	40	2.34
19	Core-19	@170	40	2.34
	12th cross Phase-2 MCECHS			
20	Core-20	@40	40	2.34
	11th cross Phase-2 MCECHS			
21	Core-21	@50	40	2.33
	1st Main road Phase-2 MCECHS			
22	Core-22	@50	40	2.33
23	Core-23	@140	40	2.33
24	Core-24	@280	40	2.33
	Amruthnagar 1st c/s road			
25	Core-25	@70	40	2.33
26	Core-26	@140	40	2.33
	Amruthnagar 3rd Main road			
27	Core-27	@110	40	2.32
	Amruthnagar 2nd Main road			
28	Core-28	@50	40	2.32
29	Core-29	@130	40	2.32
	Amruthnagar 2nd Main road			
30	Core-30	@110	40	2.35
	Amruthnagar Police station road			
31	Core-31	@50	40	2.34
32	Core-32	@160	40	2.34

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